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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/601,615	06/23/2003	George B. Byma	1-73826	8851
66791 7590 02/13/2008 INTERNATIONAL AUTOMOTIVE COMPONENTS GROUP, LLC c/o MACMILLAN, SOBANSKI & TODD, LLC			EXAMINER	
			RUDDOCK, ULA CORINNA	
ONE MARITIME PLAZA, FIFTH FLOOR 720 WATER STREET		ART UNIT	PAPER NUMBER	
TOLEDO, OH 43604			1794	
			MAIL DATE	DELIVERY MODE
			02/13/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/601.615 BYMA ET AL. Office Action Summary Examiner Art Unit Ula C. Ruddock 1794 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 05 December 2007. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-9.21-25 and 27-32 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 1-9, 21-25, and 27-32 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abevance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)

PTOL-326 (Rev. 08-06)

Notice of Draftsperson's Patent Drawing Review (PTO-948)

Information Disclosure Statement(s) (PTO/S5/08)
 Paper No(s)/Mail Date ______.

Paper No(s)/Mail Date.

6) Other:

5) Notice of Informal Patent Application

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DETAILED ACTION

The Examiner has carefully considered Applicant's response filed December 5, 2007. The
previously set forth rejections have been maintained.

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Double Patenting

3. Claims 1-9, 21-25, and 27-32 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1, 3-5, and 18-30 of copending Application No. 10/440708. Although the conflicting claims are not identical, they are not patentably distinct from each other because the claims are obvious variants over one another.

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

Rejection is maintained.

4. Claims 1-9, 21-25, and 27-32 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-9 and 19-29 of copending Application No. 10/440800. Although the conflicting claims are not identical, they are not patentably distinct from each other because the claims are obvious variants over one another.

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

Rejection is maintained.

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5. Claims 1-9, 21-25, and 27-32 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1, 3-7, and 22-34 of copending Application No. 10/440889. Although the conflicting claims are not identical, they are not patentably distinct from each other because the claims are obvious variants over one another.

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

Rejection is maintained.

Claim Rejections - 35 USC § 103

6. Claims 1, 3, 4, 22, 24, 25, and 27-30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Arthurs (US 5,460,870) in view of Michael (US 2003/0121989). Arthurs discloses a laminate suitable for use as a headliner comprising polyurethane foam core layer which is bonded by an adhesive to glass fiber reinforcing layers (col 1, In 41-50). Arthurs discloses the claimed invention except for the teaching that a reinforcement layer comprising carbon fibers is provided adjacent to the polyurethane foam layer.

Michael discloses a headliner [0002] comprising fibers selected from a group consisting of natural fibers, synthetic fibers, and mixtures thereof. Natural fibers include sisal, hemp, and kenaf fibers and synthetic fibers include carbon fibers [0007]. The resinous binder that binds the fibers together includes a thermoset resin including a urethane resin binder [0010]. It would have been obvious to one having ordinary skill in the art to have used Michael's carbon fibers and thermoset binder in the laminate of Arthurs, motivated by the desire to create a laminate having enhanced lamination strength. Regarding claim 24. it also would have been obvious to one having ordinary

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skill in the art to have used Michael's natural fibers and thermoset binder (i.e. urethane) in place of Arthurs' glass fibers, motivated by the desire to create a laminate that has increased strength yet maintains it lightweight properties. Regarding claim 26, it is the Examiner's position that the use of Michael's carbon fibers would result in a laminate comprising fibers with a degradation point above the incineration point of the other materials of the laminate.

With regard to the new claims, it is noted that Arthurs teaches a material wherein the core density and thicknesses are within the claimed ranges. Further, with regard to the limitations regarding the claimed tensile strength of the basalt fiber, it is reasonable to presume that since the fibers are made of the same material they would necessarily have the claimed strength. With regard to the limitation that the laminate is "adapted to be incinerated" such that the laminate is reduced to ash and basalt fiber, since no structural changes are set forth with regard to the claimed adapting, it is reasonable to presume that the structure of Arthurs as modified by Michael would meet this limitation.

Rejection is maintained.

7. Claims 2 and 5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Arthurs (US 5,460,870) and Michael (US 2003/0121989), as shown above, and further in view of Michael (US 2003/0124271). Arthurs and Michael '989 disclose the claimed invention except for the teaching that the carbon fibers are produced from petroleum pitch and that the carbon fibers comprises at least 50% of the total weight of the mat. Michael (US 2003/0124271) discloses a headliner [0028 and 0052] comprising a mat made of carbon fibers [0007]. The carbon fibers can be pitch carbon and be present in an amount from about 10-50% by weight based on the total

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weight of the mat [0038]. It would have been obvious to one having ordinary skill in the art to have used Michael's 50% pitch carbon as the carbon fibers in Arthurs and Michael '989, motivated by the desire to create a headliner that is lightweight and less costly to manufacture.

Rejection is maintained.

8. Claims 6-8, 21, 23, and 31-32 are rejected under 35 U.S.C. 103(a) as being unpatentable over Arthurs (US 5,460,870) and Michael (US 2003/0121989), as shown above, and further in view of Fletemier et al. (US 6,156,682). Arthurs and Michael disclose the claimed invention except for the teaching of the additional layers in the headliner as taught in the present invention.

Fletemier et al. (US 6,156,682) disclose a vehicle headliner comprising a fibrous core, a thermosetting resin, chopped fibers applied to opposite sides of the core layer, a decorative layer, and an impervious film and finish scrim applied to the opposite side of the core (col 2, ln 3-10). The fibrous reinforcement layers comprise basalt fibers (col 4, ln 16-18). As seen in Figure 1, reference point 22 is a decorative covering, reference point 19 is a polymer film, reference points 14 and 16 are fibrous reinforcement layers, reference point 12 is the core, reference point 18 is a polymer film, and reference point 20 is a scrim. The adhesive resin is an elastomeric thermosetting resin, preferably a curable urethane (col 5, ln 19-20). It would have been obvious to one having ordinary skill in the art to have used Fletemier's scrim layer in the laminate of Arthurs and Michael, motivated by the desire to create a laminate with increased strength. It also would have been obvious to have used Fletemier's basalt fibrous reinforcement layers in the laminate of Arthurs and Michael, motivated by the desire to create a headliner that is lightweight and less costly to manufacture.

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Rejection is maintained.

9. Claim 9 is rejected under 35 U.S.C. 103(a) as being unpatentable over Arthurs (US 5,460,870) and Michael (US 003/0121989) and Fletemier et al. (US 6,156,682) as applied to claim 6 above, and further in view of McConnell et al. (US 4,812,186). Arthurs and Michael and Fletemier et al. disclose the claimed invention except for the teaching that there is a layer of adhesive interposed between the core and the first and second structural reinforcement layers. McConnell et al. (US 4,812,186) disclose a headliner (col 1, In 11-13) comprising a first polyurethane adhesive (col 2, In 19-30) and a second adhesive made of a similar adhesive composition as that applied in the first adhesive (col 3, In 1-11). The adhesive penetrates the reinforcing layers and serves to the reinforcing layer, when cure, to the core material. It would have been obvious to one having ordinary skill in the art to have used McConnell's adhesive layers in the headliner of Arthurs and Michael and Fletemeir et al., motivated by the desire to create a headliner that has increased structural integrity and dimensional stability.

Rejection is maintained.

Response to Arguments

10. Applicant's arguments filed December 5, 2007, have been fully considered but they are not persuasive for the reasons set forth. Applicant argues that the previous action dismisses the facts set forth in the Declaration regarding the long felt need in the vehicle manufacturing industry to reduce the overall weight of vehicles, reduce the amount of glass fiber and recycle automotive parts. However, as set forth in the previous action, the weight of the claimed material as well as the recyclability of the material is not set forth in the claims, and therefore the Declaration is not

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commensurate in scope with the claims. This statement does not dismiss the facts, but notes that the Declaration is not commensurate with the claims. If the critical feature is that the weight of the claimed material is a certain value and/or that the material can be recycled, this needs to be in the claims. Further, as noted in the previous, with regard to the issue of long felt need and how much work has been done to solve various problems associated with automotive headliners, while the Declaration states that the company where the Declarant worked and competitors of that company worked on the problem, the scope of the work, how many companies this entailed, the amount of attention and resources which were focused on the problem, etc., has not been set forth in the form of factual evidence. The fact that the Examiner did not find the Declaration persuasive when considered with the totality of the evidence, does not mean that the Declaration was not carefully considered or given weight. As shown by the treatment of the Declaration in the previous action. the entirety of the Declaration was carefully considered and the decision to maintain the rejections was based on the totality of the record, which includes the Declarations which are of record as well as the prior art references.

Applicant argues that the Declaration provides many facts that are based upon the first hand knowledge of the Declarant, not merely opinions as set forth by the examiner. However, as set forth above, to state that there was long felt need and state that the Declarant's company and other companies worked on the problem is not sufficient to meet the standards set forth in the MPEP for establishing long felt need. The examiner does not have a standard, the examiner is attempting to apply the standards for evaluating evidence set forth in the MPEP. Applicant has not pointed out which facts the examiner has allegedly improperly ignored.

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Conclusion

 THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

 Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ula C. Ruddock whose telephone number is 571-272-1481. The examiner can normally be reached on Monday-Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Terrel H. Morris can be reached on 571-272-1478. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/U. C. R./

/Ula C Ruddock/ Primary Examiner, Art Unit 1794